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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/815,613	04/02/2004	Kia Silverbrook	HYG012US	9405
24011 7590 01/31/2008 SILVERBROOK RESEARCH PTY LTD 393 DARLING STREET BALMAIN, 2041 AUSTRALIA			EXAMINER	
			HESS, DANIEL A	
			ART UNIT	PAPER NUMBER
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			01/31/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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•		Application No.	Applicant(s)		
Office Action Summary		10/815,613	SILVERBROOK ET AL.		
		Examiner	Art Unit		
		Daniel A. Hess	2876		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet wit	h the correspondence address		
WHIC - Exte after - If NO - Failt Any	CORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES and the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depend for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNIC 36(a). In no event, however, may a re will apply and will expire SIX (6) MONI , cause the application to become ABA	ATION. ply be timely filed THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on 02 Ag	<u>oril 2004</u> .			
2a) <u></u>	This action is FINAL . 2b)⊠ This action is non-final.				
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D.	11, 453 O.G. 213.		
Disposit	ion of Claims				
5)□ 6)□ 7)⊠	Claim(s) <u>1-43</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) <u>10,11,30 and 31</u> is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.			
Applicat	ion Papers		*		
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <u>02 April 2004</u> is/are: a) Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	☑ accepted or b)☐ object drawing(s) be held in abeyand tion is required if the drawing(ce. See 37 CFR 1.85(a). s) is objected to. See 37 CFR 1.121(d).		
Priority	under 35 U.S.C. § 119				
12)[a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Aprity documents have been u (PCT Rule 17.2(a)).	oplication No received in this National Stage		
2) Notice 3) Info	nt(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 11/1/04, 2/12/07.	Paper No(s	ummary (PTO-413))/Mail Date formal Patent Application 		

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DETAILED ACTION

This action is responsive to Applicant's filing of 4/2/2004, which has been entered into the electronic file of record.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-5, 12-14, 16, 21, 22, 24, 25, 32-34, 36 and 41-42 are rejected under 35 U.S.C. 102(e) as being anticipated by Fiordelisi (US 6,435,407).

Re claim 1:

Fiordelisi (figure 1) clearly shows a cart (receptacle) adapted to receive and retain product items, with an opening though which items are placed.

There is (see in particular figure 4a) an omnidirectional scanning system 7a-7c at the entry point 5 of the cart.

It is clear (column 4, lines 45-55 for example) that the laser scanner 7 works in 360 degrees to scan products <u>automatically</u> as they enter the cart at the entrypoint 5. See especially column 8, lines 1-15.

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Further, the scanning system is described at column 5, lines 50-60: "it comprises the system 7 for electronically scanning standard (UPC/EAN) bar codes with the related laser optical scanning device 7 with omnidirectional reading characteristics (360 degrees with respect 25 to the desired label position and distance)." From this it is clear, that the scanner will indeed scan in the form of scan lines (scanning beams) because this is the type of scanning needed to read bar codes, given that Fiordelisi uses a laser beam.

Further (column 5, lines 45+), it is disclosed that "SHOPPING COMPUTER, as shown in FIG. 7b, comprises a dedicated area 6n1 to provide shopping information on the incoming product (purchase) (price, type, offer, provisional total amount, final total amount to be paid, and others)"

From this it is quite clear that the product is read and identified, for all of the above information requires product identification.

The Examiner notes that the particular limitation that the product item includes a **plurality** of coded data portions is clearly conveyed in an intended-use manner. That limitation is found in the preamble, and furthermore the preceding clause refers to "the shopping receptacle being adapted to." It is clear that if Gogulski's cart is <u>capable of</u> identifying a product item with a single code on it, he will be able to so much more easily identify a product item with multiple codes on it.

Re claim 2: As has already been made clear at column 5, lines 50-60 of Fiordelisi, the laser of Fiordelisi emits in 360 degrees, and thus come scan lines would be normal to others. A sensor is an implicitly a part of the scanning device 7. The claimed processor corresponds to the shopping computer discussed at column 5, line 45 and elsewhere.

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Re claims 3-5:

The presence of a computer system with communication capability is inherent. An action is taken based on identification of a product, namely (column 5, lines 35+) displaying information related to products.

See also claim 7, column 11, line 23: "a data or graphics display unit (6n) having an area dedicated to information (6n) about an on-going shopping operation"

This is just one of a variety of actions that can be taken following identification of a product.

Re claim 12: See column 5, lines 34+. There are different menu options for the cart.

These menu options may broadly be considered different modes.

Re claim 13: See discussion re claim 1, above.

Re claim 14: As discussed above, at least one type of information provided is (a) product information about the product.

Re claim 16: The very point of UPC is to distinguish products from each other.

Re claim 21: A UPC as discussed by Fiordelisi will provide at least product identity.

Re claim 22: Clearly a product's UPC will be found on one of the recited surfaces.

Re claim 24: See discussion re claim 1, above.

Re claim 25: See discussion re claim 3, above.

Re claim 32: See discussion re claim 12, above.

Re claim 33: Fiordelisi provides at least data on prices (see abstract for instance).

Re claim 34: See discussion re claim 14, above.

Re claim 36: See discussion re claim 16, above.

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Re claims 41-42: See discussion re claims 21-22.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 6-9, 26-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fiordelisi in view of Blauer (US 6,484,939).

Re claims 6, 9: In Fiordelisi, one portion of the computer system is the checkout computer that interacts with the scanning shopping cart (see figures 13). This is described especially at column 7, lines 10-20. At the checkout, there is payment such as by a card (column 7, lines 20-25). Thus, the checkout acts as a link associating the sensing device (cart) with a user by associating the purchase data gathered by the sensing device with the user's account. This is an indirect link however.

In Blauer (see abstract and whole document) a shopping cart is directly associated with and dissociated with a user.

In view of Blauer's teachings, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the old and well-known association of a cart with a user so that transactions may occur directly with the cart or custom user data can be directly imported (an advantage Blauer gives in his abstract).

Re claim 7: The management, in Fiordelisi, of "already-purchased" and "not-yet-purchased" lists using the system is conveyed in Fiordelisi's abstract.

Re claim 8: Providing product lists of Fiordelisi (see abstract of Fiordelisi), at any time, would have been obvious because these lists are managed for the benefit of the shopper.

Re claims 26-29: See discussion re claims 6-9.

Claims 15, 35 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fiordelisi in view of Loof (US 6507279).

Loof makes clear that RFID or bar code scanners can alternately be used as a way to scan products in an assisted shopping scheme using a cart.

In view of Loof's teachings, it would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the old and well-known RFID tags for the bar codes of Fiordelisi because RFID tags do not require direct line-of-sight.

Claims 17-18, 23, 37-38 and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fiordelisi.

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Re claims 17-18, 37-38: Error correction (redundant encoding, use of a checksum bit, etc.) is well known in the art and its use is motivated by a need to reduce read errors. Reed-Solomon is one effective way of error correction. It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the old and well-known Reed-Solomon encoding in order to reduce read errors

Re claims 23, 43: Placing encoding on multiple surfaces and/or covering substantial portions of a product surface are principles that are well established in package handling (i.e. postal processing).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to include the old and well-known encoding on multiple surfaces and/or covering substantial portions of a product surface with the motivation to improve reading and improve odds of reading.

Claims 19-20, 39, 40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fiordelisi in view of Albert et al. (US 4436991).

While Fiordelisi doesn't use infrared encoding, Albert teaches this, and further provides the motivation (column 1, lines 25-30) that infrared coding cannot be interfered with by unauthorized persons.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the old and well-known infrared so that coding cannot be interfered with by unauthorized persons.

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Allowable Subject Matter

Claims 10-11, 30-31 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Re claim 10, 31: The prior art fails to teach or fairly suggest, in the context of all other limitations in claims upon which the claim depends, position of a card in the receptacle opening to generate data indicative of the identity of the user and the identity of the sensing device.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Gogulski (US 4,071,740), Collins, Jr. (US 4,929,819), Johnsen (US 5,250,789) and Gupta et al. (US 5,361,871) are all shopping carts with built-in scanners.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel A. Hess whose telephone number is (571) 272-2392. The examiner can normally be reached on 8:00 AM - 5:00 PM M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee can be reached on (571) 272-2398. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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1/26/07

DANIEL HESS PRIMARY PATENT EXAMINER